

# Canadian Perspective on SF<sub>6</sub> Management from Magnesium Industry

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# Presentation Outline

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- Sector overview
- GHG emissions
- Actions/measures
- Business plan

# Magnesium Industry in Canada

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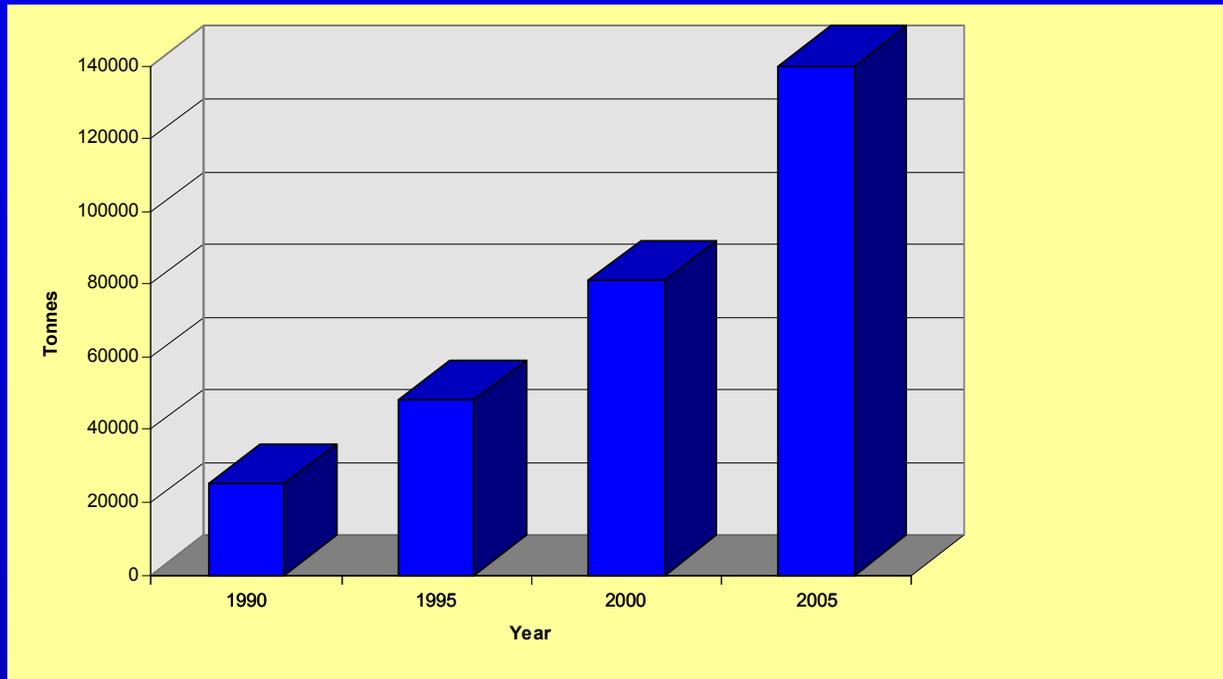
# Magnesium Industry in Canada

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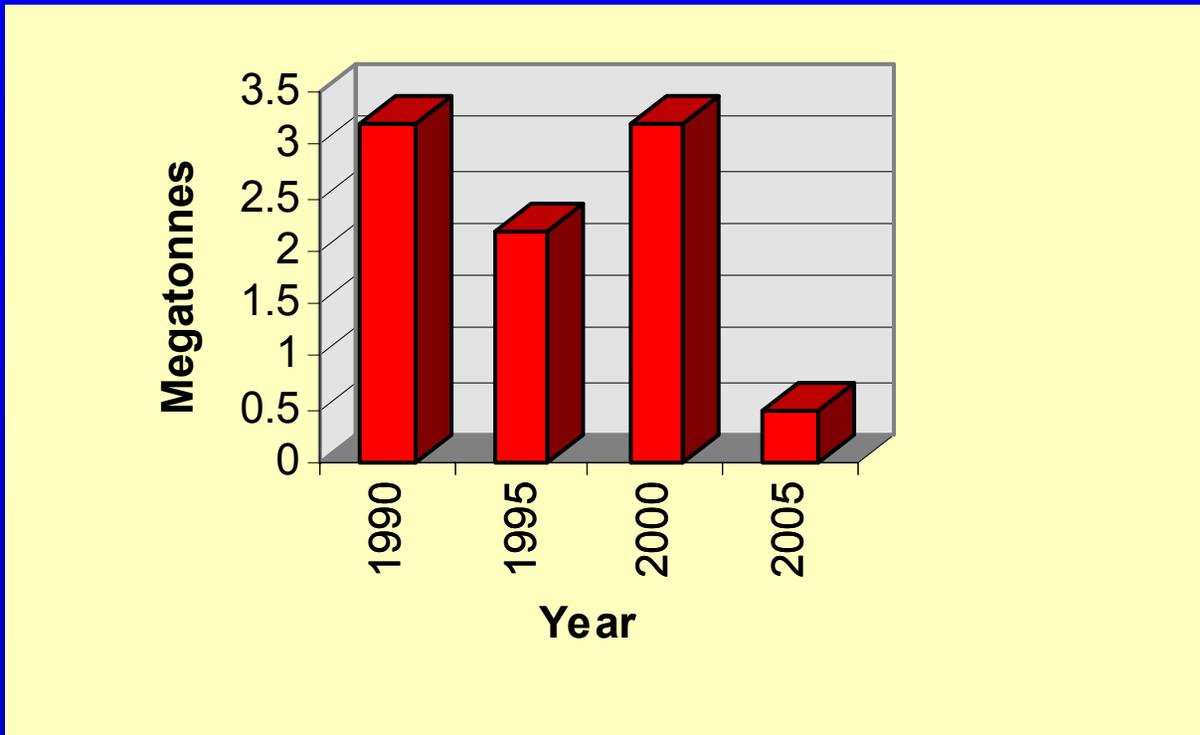
# Mg Production Capacity and Growth Projection 1990 - 2005

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## GHG Emissions from Magnesium Production 1990 - 2005

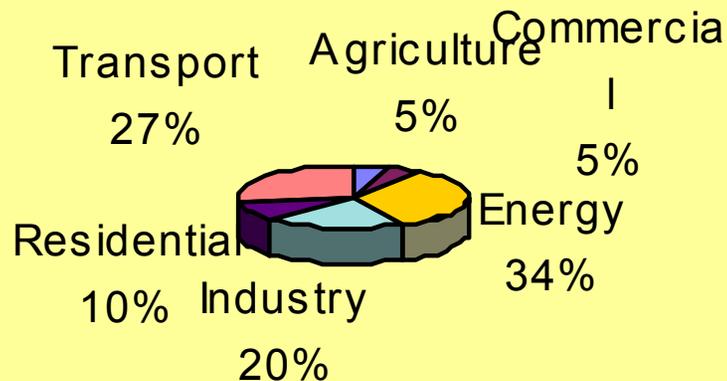
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# Canadian GHG Emissions by Sector - 1995

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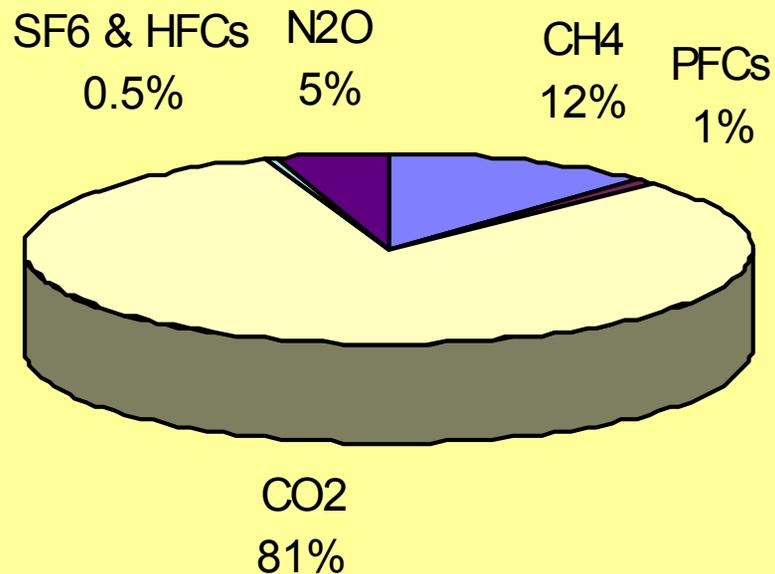
**Total emissions 619 Mt**



# Canadian GHG Emissions by Gas - 1995

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## Greenhouse Gas



# Current Canadian Initiatives

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- Voluntary agreement to eliminate SF<sub>6</sub> made by two smelters
- Elimination of SF<sub>6</sub> reported by one facility
- SO<sub>2</sub> system tests reported by one smelter and a die-casting plant
- Alternative gas being developed by one company

## A Proposed Action Plan (2001 - 02)

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- Initiate SF<sub>6</sub> data collection from casters
- Analyse CO<sub>2</sub> & indirect emissions
- Assess research into SF<sub>6</sub> alternatives
- Assess status & intentions of companies
- Set up voluntary agreements
- Organize plant monitoring & reporting system for sector

## A Proposed Action Plan (2002 - 03)

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- Enhance existing voluntary agreements
- Support programs/studies for companies with significant SO<sub>2</sub> barriers
- Assist in R&D of SF<sub>6</sub> alternatives

## A Proposed Action Plan (2003 - 04)

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- Monitor and continue to develop voluntary agreements
- Possible financial incentives if needed for accelerated adoption

# Web Sites

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- Canada's National Climate Change Process - [www.nccp.ca](http://www.nccp.ca)
- Environment Canada - [www.ec.gc.ca](http://www.ec.gc.ca)
- Natural Resources Canada - [www.NRCan-RNCan.gc.ca](http://www.NRCan-RNCan.gc.ca)
- Voluntary Challenge and Registry Inc. - [www.vcr-mvr.ca](http://www.vcr-mvr.ca)